



MSDS - MycroBor

June 1, 2007

Section 1. Product Information

Product Name: Disodium Octoborate Tetrahydrate

Distributed by Pestell Minerals & Ingredients, New Hamburg, ON Canada

24 Hour Emergency Telephone (Canutec): 613-996-6666

Section 2. Composition/Information on Ingredients

Disodium Octoborate Tetrahydrate 99%

CAS: 1280-03-4 or 12008-41-2

Formula: $\text{Na}_2\text{B}_8\text{O}_{13} \cdot 4\text{H}_2\text{O}$

Section 3. Hazard Identification

This product is not classified as dangerous

Section 4. First Aid Measures

Inhalation: Bring the subject to fresh air

Skin Contact: Wash immediately with plenty of water

Eye Contact: Rinse with plenty of water for at least 15 minutes. Call a physician.

Ingestion: Rinse mouth with water if the subject is conscious. Call a physician and after a qualified physician's approval give the subject plenty of water or milk.

Section 5. Fire Fighting Measures

The product is not flammable. It is used as a flame retardant

Suitable Extinguishing agents for surrounding fire: sprayed water, carbon dioxide, dry chemical or proper foam

Products of Combustion: The product is not flammable

Protective Equipment: Not applicable

Section 6. Accidental Release Measures

Person-Related Safety Precautions

Take appropriate precautions to minimize dust inhalation

Methods for Cleaning/Collecting

Sweep, shovel into a bag for disposal

Avoid dust formation

Ensure proper ventilation and flush the contaminated area after collecting all released material.

Section 7. Handling and Storage

Handling: Avoid ingestion and inhalation. Avoid eyes, skin and clothes contact. Avoid prolonged and repeated exposures.

Storage/Transport Temperature: Room temperature

Electrostatic Charges: Procedures of putting to earth

Section 8. Exposure Controls & Personal Protection

Technical Measures: Provide a quick drench shower and an emergency eye wash fountain in the immediate work area. A mechanical exhaust is obligatory, provide appropriate ventilation/aspiration systems to prevent dust formation.

General Sanitary Measures: Wash carefully after handling.

Personal Protective Equipment

Breathing Equipment: Wear a respirator

Eye Protection: Wear safety glasses

Exposure Limit Value: Disodium Octoborate Tetrahydrate: ACGIH TLW/TWA 5mg/m³

Section 9. Physical and Chemical Properties

Form: Solid

Colour: White

pH: 8,5 (sol. 10 g/l)

Melting Point: 816°C

Boiling Point: Not applicable

Flash Point: Not applicable

Flammability: Not applicable

Decomposition Temperature: Not applicable

Explosion Hazard: Not applicable

Apparent Density: 4,3 g/cm³ at 20°C

Solubility in/Miscibility with Water: 148 g/l (20°C)

Section 10. Stability and Reactivity

Stability: Stable at room temperature and under normal storage conditions

Conditions to Avoid: Sensitive to moisture

Materials to be Avoided: Reducing agents, metallic hydrides, alkaline metals

Hazardous Products of Decomposition: Hydrogen

Hazardous Polymerization: Does not occur

Section 11. Toxicological Information

Exposition: Ingestion, inhalation, skin contact

Ingestion: (Acute Toxicity): LD₅₀ (rat) > 2000 mg/kg

Chronic Toxicity: Chronic intoxications are unusual and may cause digestive problems and skin damages.

Skin/Eye Contact: Slightly irritant for eyes

Inhalation: Slightly irritant for respiratory tract

Chronic Exposure: Hazards for reproduction

Results: The product may affect the reproductive system in animals

Carcinogenicity/Mutagenesis: Not reported

Section 12. Ecological Information

Aquatic Toxicity

LC50: Species - trout Time 4gg (fresh water) Value: 27 mg (B)/l
LC50: Species - trout Time 4gg (hard water) Value: 54 mg (B)/l
LC50: Species - catfish Time 4gg (fresh water) Value: 155 mg (B)/l
LC50: Species - catfish Time 4gg (hard water) Value: 71 mg (B)/l
LC50: Species - goldfish Time 4gg (fresh water) Value: 65 mg (B)/l
LC50: Species - goldfish Time 4gg (hard water) Value: 59 mg (B)/l

Persistence and Biodegradability

Other Indications: Boron is widespread as a micronutrient

Notes: The product is soluble in water and is easily absorbed through the soil.

Section 13. Disposal Considerations

To dispose of the product you should contact approved waste disposal companies. Dispose of in accordance to European, National and Local regulations concerning environmental protection.

Section 14. Transport Information

ADR/RID: Not dangerous for transport by road

IMDG: Not dangerous for transport by sea

IATA: Not dangerous by transport by air

Regulatory Information: Not listed as dangerous product.

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